

1801

REPORT

on the

MAGNETIC PROSPECTING

for

DUNITE PIPES

on the

SWEDE MINERAL CLAIMS

of

KELSO EXPLORATIONS LTD. (N.P.L.)

by

Ian F. Morton

7/3/69

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A Report on the Magnetic Prospecting  
for Dunite Pipes on the Swede Mineral Claims of Kelso  
Exploration Ltd. (N.P.L.)

INTRODUCTION

The following report on the Magnetic prospecting of the Swede Mineral Claims was made at the request of the principals of Kelso Explorations, Ltd. (N.P.L.).

LOCATION AND ACCESS

The claims lie in the headwaters of American Creek, to the south of the Giant Mascot Property (near Hope, B. C.)

Ready access is available via a good gravel road following the north bank of American Creek.

GENERAL GEOLOGY

The property lies within a group of formations forming a 50 mile wide belt parallel to the Coast Range and extending intermittently from Atlin to the south of Hope B. C.

These comprise: The Chilliwack Group

The Curtis Granodiorite and  
Quartz Diorite (Early Mesozoic)

The Coast Intrusions, the Diorite  
Quartz

Diorite (Late Mesozoic)

The basic intrusions of Dunite,  
Gabbro, Peridotite and Serpentine  
(Late Mesozoic)

Addition to Introduction:

STATEMENT OF WORK PERFORMED:

The work was performed between the 12th of February, 1969 and the 18th of February, 1969.

This involved an average of 6.79 hours a day on the ground, and one to 1.5 hours a day was involved prior to and after the survey in checking the stability and correlation of the ground and the base magnetometer in relation to each other.

This an overall total average of 7.79 hours a day minimum was spent on the ground.

In addition approximately two hours a day was spent in travelling time from the base of operations to place of residence and visa versa.

ECONOMIC GEOLOGY AND ITS ASSOCIATED GEOPHYSICAL EFFECTS

(Ref. Geology of the Bea Claims by Ian F. Morton  
Theses by Aho, Irvine, Porševin)

The nickel platinum deposits appear to be related to the emplacement of the basic intrusives. The basic materials, where they occur, are usually zoned in pipe-like bodies, due perhaps to gravitational differentiation in the original Magma.. They vary from intermediate rocks on the periphery to more basic rocks with heavy metallic minerals in the dunite in the axis of these bodies. These heavy metals invariably increase as the magnesium content of the rock increases (Theses by Aho and G.S.C. paper by Porševin), until they reach their highest concentration in the dunite core, which is rarely greater than 50' in diameter. The pipes are to be expected on the contact of pre-existing formations, e.g. diorite and pyroxenite (Aho).

The rocks of the dunite core are usually denser and carry less ferromagnetic accessory minerals than those found in the various zones towards the periphery of the pipe (Irwin Thesis on Duke Island). In geophysical exploration, such "pipes" would, consequently, be expected to show - on contour maps - circular or oval features whose centers produced the highest gravimetric values, and relatively low vertical magnetic values. Their peripheries would be outlined by low gravity and relatively high magnetic effects. Both magnetometer and gravity work has been performed on the not too distant Bea Mineral Claims. The gravimetric map

appears to outline high density pipe-like situations of approximately 50' diameter somewhat more sharply than the associated magnetic map. The lack of resolution in the magnetic map appeared due to the distance apart of grid lines.

#### PRELIMINARY OBSERVATION OF LOCAL GEOLOGY

Owing to the snow cover, very little outcrop was available. Granodiorite was, however, found to the northeast of section 12E on the map. This same rock is known to occur again one-half mile to the southeast of section 1A. An almandine biotite schist is also known to occur about 50' to the east of section 8E.

A topographic reflection of conjugate fracture sets appears to be expressed on a hillside to the north of the grid. These appear to consist of widely spaced east-west fractures (perhaps over 400' apart), and closely spaced north-south fractures (less than 150' apart).

## MAGNETIC PROSPECTING OF THE SWEDE MINERAL CLAIMS

### INTERPRETATION

A set of closely spaced lineaments were picked up in the contour map and appear to correspond with those northerly fractures seen on the hillside to the north. Several east-west widely spaced ones appear to correspond to those east-west fractures on the same hillside.

Using the location of the few known outcrops as an approximate guide, a break corresponding to the contact of the granodiorite and the schist appears to be evident.

There are several bodies of pipelike forms whose gradient is steep enough to consider as potential regions for zoned bodies with magnetic perimeters. They are 11B, 10B, 9B, 8B, 7B, 5B, 4B and 3B. Of these 5B, 8B, 10B, 11B appear to be in breaks of the same uniform value as the schist-granodiorite contact which are striking towards it. This could be due to remnant schist embayments after the assimilative process of the intrusive had taken place. Such pipe-like bodies would then have appeared on the contact as seen in the Giant Mascot property.

It is actually quite hard without further geological and geophysical work to determine whether these "pipe-like bodies" result from structural relief at the top of the basement rocks or from a lateral change in rock susceptibility.

If the structural relief situation exists, these "bodies" may correspond with topographic lows in the intrusive body; if they are due to a lateral change in rock susceptibility, they may be due to nothing more than points in the intrusive where paramagnetic disseminations are less segregated.

Another series of depressions of indefinite form appear on the western end of Section A. These are probably mostly the extensions of fault features, but some could be the pipes searched for. Since, however, their western end is open, better definition could be obtained by placing another short east-west grid to the south of Section A.



CONCLUSIONS

1. There is a possibility that ore-bearing dunite pipes exist along the B section. Notably 5B, 8B, 10B and 11B.
2. Correlation of these bodies should be made with a gravimetric survey.
3. Geology of the Swede Mineral Claims should be performed.

*Jan J. Heston*

METHOD

1. Two G-100 flux gate absolute reading vertical magnetometers were rented from Saber Electronics Ltd. The internal constants of these were checked by Saber Electronics, and no difference was found to occur. One of these was used on the time base, and the other was the field instrument. This enabled more work to be performed under adverse winter conditions.
2. The time base was set up in the center of the grid area in order to pick up not only the regular diurnal effects, but also more localized ones which may be dependent on the nature of the area.
3. Watches were synchronized for time base and field operators, and checked on return of the field operator to time base at the end of the day.
4. Time base readings were taken every 10 minutes of the time the field instrument was away from time base. Time base readings were commenced 15 minutes prior to field operation and continued for 15 minutes after the return of the field magnetometer.
5. Instruments were checked against each other prior to and after field operation.

6. Since snow was on the ground, it was hard to orient the grid across any definite structure, but the dominant topographic reflection appeared to be north-south.
- 7.a) An east-west base line was therefore run on the south side of the area to be prospected. Four tie lines at right angles to this were also formed - - approximately 1200' apart. This was done by chain and compass.
  - b) Five lines parallel to the base line were also run.
  - c) A check line was thrown diagonally across two lines in the northwest corner of the prospecting grid.
8. As each line was being run, one man advanced with the chain and flags. The field operator holding the other end of the chain until a 200' flag had been emplaced. The field operator then took readings every 50' along the chain.
9. The magnetometer readings were taken facing magnetic north.
10. All readings were corrected for diurnal variation with 54,000  $\gamma$  as the datum level.

11. For the purpose of plotting, only relative values above 53,000  $\delta$  absolute were used.
12. Contours are plotted at every 100  $\delta$ .

*Jan A. Morton*

COST OF WORK PERFORMED

Magnetometer Rental . . . . .	\$ 100.00	
Land Rover Rental . . . . .	87.50	
Gas and Oil . . . . .	43.66	
Food & Lodging for 3-man crew . . . . .	153.39	
Showshoes (rental) . . . . .	42.00	
Ski-Doo (rental) . . . . .	83.00	
Wages - Geologist @ \$60/day	420.00)	} 8 hrs. } a day
2 Assistants @ \$25/day	350.00)	
(1 Assistant for time base, ) (1 for chaining & navigation)		
Miscellaneous Expenses (tags, nails, stakes, tape, etc.)	38.00	
	<hr/>	
	\$ 1,377.55	
Geologist's report, calculations and typing	<hr/>	
	200.00	
	\$ 1,577.55	
	<hr/>	

*Jan J. Morton*  
*[Signature]*

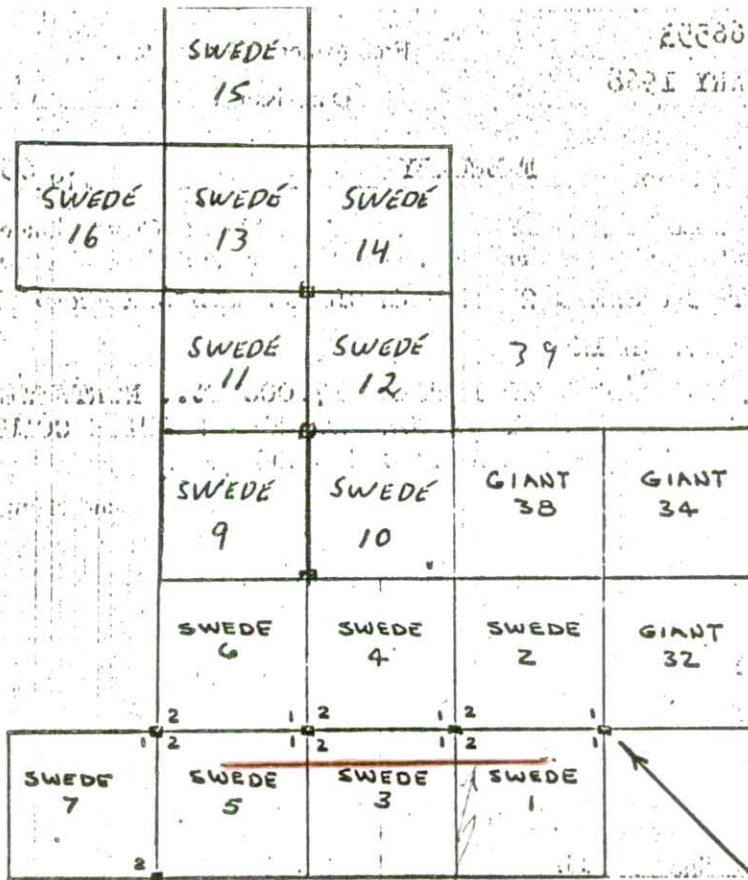
CERTIFICATE

I hereby Certify that:

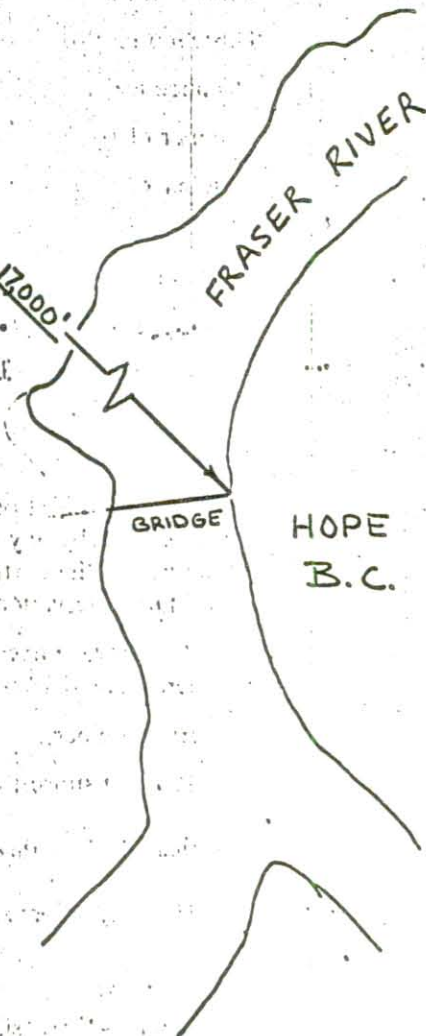
1. I am a graduate in Mining Engineering from the Camborne School of Mines, Cornwall.
2. I am a graduate from the University of British Columbia with majors in geology and biology.
3. I am an Associate Member of the Institution of Mining and Metallurgy (London).
4. I am a Chartered Engineer of the Engineering Association of the United Kingdom.
5. I have no interest in the company for whom this report is written.



Ian F. Morton, B.Sc., A.C.S.M.,  
A.M. IMM., C. Eng.  
Geologist



Location S. Base Line 1700'



Mines and Petroleum  
 ASSESSMENT REPORT  
 NO. 1801 MAMP 1

MAG. NOTES



**GEO-X SURVEYS** Ltd.

627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 12/2/69 Pg. 1

Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	Δ1	53950		11.53	25		53925	
	+50	53950		11.55	28		53925	
	+100	53820		11.57	30		53770	
	+150	53820		12.00	36		53784	
	Δ2	53740		12.06	45		53695	
	+50	53820		12.21	40		53780	
	+100	53840		12.26	30		53810	
	+150	53800		12.21	22		53978	
	Δ3	54020		12.40	34		53986	
	+50	53910		1.07	42		53868	

MAG. NOTES



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627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 13/2/69 Pg. 2

Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	Δ3+100	53950		1.20		13	53937	
	+150	53480		1.29		07	53473	
	Δ4	53950		1.31		06	53944	
	+50	53570		1.35		03	53567	
	+100	53890		1.41		00	53890	
	+150	53900		1.45		02	53902	
	Δ5	53990		1.48		02	53992	
	+50	53930		1.52		01	53929	
	+100	53920		1.55		22	53898	
	+150	53370		2.02		30	53320	
	Δ6	53310		2.09		34	53376	
	+50	53960		2.15		18	53942	

MAG. NOTES



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627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 13/2/69 Pg. 3

Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	Δ6+100	53950		2.16		17	53933	
	+150	53950		2.20		08	53942	
	Δ7	53200		2.32		17	53517	
	+50	53500		2.45		21	53579	
	+100	53430		2.50		33	53377	
	+150	53540		2.57		40	53500	
	Δ8	53930		2.06		45	53885	
	+50	53990		3.08		35	53935	
	+100	53890		3.10		39	53931	
	+150	53310		3.16		33	53307	
	Δ9	53600		3.27		62	53538	
	+50	53650		3.31		44	53586	



MAG. NOTES



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Prop. \_\_\_\_\_ Date 13/2/69 Pg. 4  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammass	Cor.	Final Z	Remarks
	Δ9+100	53570		3.33		38	53,532	
	+150	53420		3.37		28	53,392	
	Δ10	53500		3.42		30	53,480	
	+50	53550		3.45		28	53,522	
	+100	53300		3.48		32	53,268	
	+150	53600		3.51		41	53,559	
	Δ11	53600		3.56		41	53,559	
	+50	53680		4.00		20	53,660	
	+100	53100		4.02		17	53,083	
	+150	53730		4.07		7	53,723	
	Δ12	53620		4.11		0	53,620	
	+50	53710		4.13		13	53,677	

MAG. NOTES



**GEO-X SURVEYS Ltd.**  
827 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 13/3/69 Pg. 5  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammass	Cor.	Final Z	Remarks
	Δ12+100	54080		4.18		25	54,057	
	+150	53510		4.21		33	53,477	
	Δ13	53490		4.25		40	53,450	
	+50	53700		4.27		46	53,654	
	+100	53510		4.31		48	53,462	
	+150	53510		4.35		70	53,470	
	Δ14	53350		4.44		18	53,334	
	+50	53350		4.47		5	53,345	
	+100	52420		4.50		0	53,420	
	+150	54050		4.55		5	54,052	
	Δ15	53470		5.07		7	53,463	
	+50	53970		5.05		79	53,951	

MAG. NOTES



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827 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 13/2/69 Pg. 6  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammass	Cor.	Final Z	Remarks
	Δ15+100	54010		5.07		28	53,982	
	+150	53500		5.11		42	53,458	
	Δ16	53930	?	5.15		44	53,866	?
	Δ16	53610	?	10.29		108	53,502	14/2/69. Check
	+50	53610		10.38		143	53,467	} check
	+100	53400		10.43		121	53,494	
	+150	53430		10.46		142	53,288	
	Δ17	53450		10.53		60	53,390	
	+50	53400		11.00		70	53,330	
	+100	53400		11.00		70	53,330	

MAG. NOTES



**GEO-X SURVEYS** Ltd.  
627 HORNBY ST., VANCOUVER I. B.C.

Prop. \_\_\_\_\_ Date 14/2/69 Pg. 7  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	<sup>(53410)</sup> Δ 17+150	53410		11.12		80	52330	
W	Δ 18	53740		11.49		84	53656	
	+50	53570		12.10		85	53482	
	+100	54000		12.14		100	53900	
V	Δ 150	53950		12.22		107	53843	
	Δ 19	53900		12.25		110	53790	
North	+50	53810		12.34		148	53662	
200'	+100	53900		12.36		140	53760	
	+150	53830		12.58		116	53719	
	Δ 39	53620		12.42		94	53526	
F	Δ 38+150	53550		12.48		70	53480	

MAG. NOTES



**GEO-X SURVEYS** Ltd.  
627 HORNBY ST., VANCOUVER I. B.C.

Prop. \_\_\_\_\_ Date 14/2/69 Pg. 8  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	Δ 38+100	53860		12.50		84	53776	
	+50	54000		12.53		98	53902	
	Δ 38	54000		12.55		110	53890	
	Δ 37+150	53990		1.00		52	53918	
	+100	53870		1.04		40	53830	
	+50	53840		1.07		32	53808	
	Δ 37	53670		1.18		36	53614	
	Δ 36+150	53710		1.27		23	53637	
	+100	53890		1.29		75	53815	
	+50	53760		1.33		79	53681	
	Δ 36	53920		1.35		79	53841	

MAG. NOTES



**GEO-X SURVEYS** Ltd.  
627 HORNBY ST., VANCOUVER I. B.C.

Prop. \_\_\_\_\_ Date 14/2/69 Pg. 9  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	Δ 35+150	53620		1.41		60	53560	} creek
	+100	53900		1.43		56	53844	
	+50	53710		1.45		50	53660	
	Δ 35	53750		1.48		52	53728	
	Δ 31+150	53830		2.04		58	53772	
	+100	53720		2.08		30	53640	
	+50	53800		2.11		86	53714	
	Δ 31	53770		2.13		84	53686	
	Δ 33+150	53510		2.22		50	53710	
	+100	53510		2.25		71	53511	
	+50	53710		2.26		77	53712	

MAG. NOTES



**GEO-X SURVEYS Ltd.**  
627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 11/1/69 Pg. 1  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	33	53930		2.28		94	53836	
	32+150	53930		2.23		86	53844	
	+100	53660		2.37		85	53574	
	+50	53590		2.40		91	53499	
	Δ32	53850		2.42		94	53756	
	Δ31+150	53650		2.46		108	53542	
	+100	54010		2.48		120	53890	
	+50	53700		2.53		140	53560	
	Δ31	53840		2.56		142	53698	
	Δ30+150	53730		3.12		114	53616	
	+100	53850		3.15		120	53730	

MAG. NOTES



**GEO-X SURVEYS Ltd.**  
627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 11/2/69 Pg. 2  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	Δ30+50	53760		3.16		120	53640	
	Δ30	53650		3.19		110	53540	
	Δ29+150	53730		3.28		103	53627	
	+100	53660		3.31		106	53554	
	+50	53750		3.34		109	53641	
	Δ29	53810		3.38		108	53702	
	Δ28+150	53460		3.43		101	53359	
	+100	53430		3.46		101	53329	
	+50	53700		3.48		103	53397	
	Δ28	53510		3.50		105	53405	
	Δ27+150	53870		3.56		109	53761	

MAG. NOTES



**GEO-X SURVEYS Ltd.**  
627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 11/2/69 Pg. 3  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	Δ27+100	53710		4.00		105	53605	
	+50	53700		4.05		101	53599	
	Δ27	53600		4.08		94	53506	
	Δ26+150	53860		4.20		82	53798	
	+100	53620		4.25		94	53576	
	+50	53860		4.34		110	53750	
	Δ26	53670		4.41		154	53516	
	Δ25+150	53850		4.47		154	53696	
	+100	53650		4.49		68	53582	
	+50	53440		4.52		130	53410	
	Δ25	53710		4.53		02	53738	

MAG. NOTES



**GEO-X SURVEYS** Ltd.

627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 14/1/69 Pg. 13

Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	$\Delta 24+150$	53760		4.57		$\overline{30}$	53790	
	+100	53760		5.02		$\overline{62}$	53698	
	+50	53910		5.08		$\overline{60}$	53850	
	$\Delta 24$	53700		5.10		$\overline{64}$	53636	
	$\Delta 23+150$	53690		5.15		$\overline{107}$	53588	
	+100	53720		5.17		$\overline{98}$	53722	
	+50	53710		5.20		$\overline{90}$	53620	
	$\Delta 23$	53710		5.23		$\overline{90}$	53620	
	$\Delta 22+150$	53720		5.20		$\overline{118}$	53602	
	+100	53700		5.33		$\overline{137}$	53563	
	+50	53710		5.27		$\overline{134}$	53576	

MAG. NOTES



**GEO-X SURVEYS** Ltd.

627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 14/2/69 Pg. 14

Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	$\Delta 22$	53730		5.43		$\overline{90}$	53640	
	$\Delta 21+150$	53740		5.52		$\overline{92}$	53698	
	+100	53720		5.56		$\overline{116}$	53604	
	+50	53480		5.58		$\overline{112}$	53368	
	$\Delta 21$	53520		6.00		$\overline{100}$	53420	
	<del>53520</del>			$\Delta 21 - \Delta 1 =$		$144$		
	+100							
	+50							
	$\Delta 1+100$	53460		6.08		$\overline{77}$	53383	
	+50	53710		6.12		$\overline{99}$	53618	

MAG. NOTES



**GEO-X SURVEYS** Ltd.

627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 15/2/69 Pg. 15

Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	$\Delta 39+50$	53880		12.09		$\overline{108}$	53772	
	+100	53760		12.11		$\overline{108}$	53652	
	+150	53710		12.21		$\overline{75}$	53635	
	$\Delta 59$	53870		12.24		$\overline{50}$	53820	
	$\Delta 58+150$	53830		12.30		$\overline{20}$	53810	
	+100	53610		12.38		$\overline{94}$	53516	
	+50	53630		12.42		$\overline{95}$	53535	
	$\Delta 58$	53840		12.46		$\overline{89}$	53751	
	$\Delta 57+150$	53760		12.50		$\overline{79}$	53681	
	+100	53810		12.51		$\overline{78}$	53732	
	+50	53720		12.52		$\overline{55}$	53610	
	$\Delta 57$	53820		12.53		$\overline{76}$	53574	

MAG. NOTES



**GEO-X SURVEYS** Ltd.  
627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_

Date 15/9/69 Pg. 16

Job #. \_\_\_\_\_

Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammass	Cor.	Final Z	Remarks
	Δ56+150	53800		1.00		81	53719	
	+110	53770		1.04		85	53685	
	+50	53840		1.06		87	53732	
	Δ56	53840		1.10		91	53749	
	Δ55+150	53600		1.27		121	53479	
	+100	53690		1.29		129	53561	
	+50	53880		1.31		129	53451	
	Δ55	53830		1.35		124	53706	
	Δ54+150	53860		1.40		117	53743	
	+100	53850		1.42		110	53720	
	+50	53820		1.44		104	53716	

MAG. NOTES



**GEO-X SURVEYS** Ltd.  
627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_

Date 15/9/69 Pg. 17

Job #. \_\_\_\_\_

Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammass	Cor.	Final Z	Remarks
	Δ54	53870		1.47		97	53773	
	Δ53+150	53570		1.52		92	53478	
	+100	53860		1.56		114	53746	
	+50	53800		2.00		130	53670	
	Δ53	54000		2.03		132	53878	
	Δ52+150	53800		2.09		99	53701	
	+100	53780		2.17		89	53691	
	+50	53820		2.14		80	53740	
	Δ52	53710		2.19		66	53644	
	Δ51+150	53740		2.26		84	53656	
	+100	53910		2.32		102	53808	

MAG. NOTES



**GEO-X SURVEYS** Ltd.  
627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_

Date 15/9/69 Pg. 18

Job #. \_\_\_\_\_

Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammass	Cor.	Final Z	Remarks
	Δ51+50	53900		2.34		99	53801	
	Δ51+50	53950		2.37		98	53832	
	Δ50+150	53690		2.42		102	53588	
	+100	53930		2.46		106	53824	
	+50	53910		2.50		109	53801	
	Δ50	53870		2.53		102	53868	
	Δ49+150	53910		2.58		66	53844	
	+100	53900		3.01		66	53834	
	+50	53990		3.05		77	53913	
	Δ49	53900		3.07		84	53816	
	Δ49+50	53860		3.10		90	53770	

MAG. NOTES



**GEO-X SURVEYS** Ltd.

627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 15/1/69 Pg. 19

Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	$\Delta 48+100$	53820		2.14		$\overline{69}$	53751	
	+50	53880		3.17		$\overline{59}$	53821	
	$\Delta 48$	53930		3.19		$\overline{48}$	53882	
	$\Delta 47+150$	53950		3.28		$\overline{23}$	53927	
	+100	53900		3.30		$\overline{25}$	53875	
	+50	53930		3.32		$\overline{37}$	53893	
	$\Delta 47$	53840		3.35		$\overline{70}$	53770	
	$\Delta 44+150$	54000		3.38		$\overline{90}$	53910	
	+100	53910		3.40		$\overline{100}$	53810	
	+50	53910		3.43		$\overline{78}$	53837	
	$\Delta 46$	53900		3.46		$\overline{61}$	53839	

MAG. NOTES



**GEO-X SURVEYS** Ltd.

627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 15/2/69 Pg. 20

Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	$\Delta 45+150$	53830		3.51		$\overline{41}$	53787	
	+100	53810		3.54		$\overline{42}$	53763	
	+50	53850		3.59		$\overline{57}$	53793	
	$\Delta 45$	53890		4.02		$\overline{65}$	53825	
	$\Delta 44+150$	53880		4.07		$\overline{83}$	53797	
	+100	53830		4.10		$\overline{96}$	53740	
	+50	53950		4.14		$\overline{83}$	53867	
	$\Delta 44$	53790		4.15		$\overline{81}$	53709	
	$\Delta 43+150$	53880		4.19		$\overline{71}$	53809	
	+100	53940		4.20		$\overline{70}$	53870	
	+50	53810		4.24		$\overline{81}$	53749	

MAG. NOTES



**GEO-X SURVEYS** Ltd.

627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 15/3/69 Pg. 21

Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	$\Delta 43$	53870		4.33		$\overline{60}$	53810	
	$\Delta 42+150$	53800		4.38		$\overline{75}$	53725	
	+100	53910		4.42		$\overline{74}$	53836	
East	+50	53890		4.45		$\overline{70}$	53820	
	$\Delta 42$	53840		4.48		$\overline{62}$	53778	
	$\Delta 41+150$	53910		4.53		$\overline{67}$	53893	
	+100	53900		4.55		$\overline{76}$	53824	
	+50	53910		4.59		$\overline{85}$	53825	
✓	$\Delta 41$	53870		5.04		$\overline{102}$	53768	
	$\Delta 40+150$	53950		5.09		$\overline{72}$	53899	
	+50	53900		5.23		$\overline{77}$	53822	

MAG. NOTES



**GEO-X SURVEYS** Ltd.

627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_

Job #. \_\_\_\_\_

Date 15/2/69 Pg. 22

Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	R+100	53860		5.31		74	53786	North
	+150	53780		5.33		68	53712	
	$\Delta 41 - R$		= 192'					
								16/2/69
N ↓	$\Delta 41 + 50$	53790		9.52		24	53766	
	+100	53540		9.56		53	53487	
	+150	53750		9.58		61	53684	
	$\Delta 61$	53730		10.04		47	53683	
W ↓	+50	53710		10.06		30	53680	
	+100	53670		10.08		13	53657	

MAG. NOTES



**GEO-X SURVEYS** Ltd.

627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_

Job #. \_\_\_\_\_

Date 16/2/69 Pg. 23

Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	$\Delta 61 + 150$	53640		10.10		0	53640	
	$\Delta 62$	53740		10.15		27	53713	
	+50	53700		10.18		70	53660	
	+100	53800		10.20		50	53750	
	+150	53610		10.21		48	53612	
	$\Delta 63$	53830		10.22		45	53785	
	+50	53700		10.25		23	53647	
	+100	53700		10.27		28	53672	
	+150	53740		10.29		25	53715	
	$\Delta 64$	53770		10.32		15	53755	
	+50	53780		10.34		11	53769	

MAG. NOTES



**GEO-X SURVEYS** Ltd.

627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_

Job #. \_\_\_\_\_

Date 16/2/69 Pg. 24

Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	$\Delta 64 + 100$	53730		10.36		6	53724	
	+150	53700		10.38		1	53699	
	$\Delta 65$	53850		10.40		7	53843	
	+50	53710		10.45		58	53652	
W ↓	+100	53710		10.50		91	53619	
	+150	53680		10.51		80	53600	
	$\Delta 66$	53760		10.54		54	53706	
	+50	53730		10.56		42	53688	
	+100	53750		10.58		28	53722	
	+150	53710		1.01		12	53706	
	$\Delta 67$	53780		11.00	70	67	116 N	$\Delta 47$ 53720
W ↓	$\Delta 67$	53680		11.15	52	67	116 N	53720

MAG. NOTES



**GEO-X SURVEYS Ltd.**  
627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 11/27/69 Pg. 25  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammass	Cor.	Final Z	Remarks
	Δ 67	53830		11:18		11	53819	
	+100	53860		11:21		11	53879	
	+150	53830		11:23		16	53814	
	Δ 68	53810		11:28		53	53757	
	+50	53770		11:30		90	53700	
	+100	53760		11:32		58	53702	
	+150	53780		11:34		45	53735	⊗
	Δ 69	53770		11:42		4	53766	
	+50	53900		11:55		42	53858	
	+100	53900		11:56		46	53854	
	+150	53910		11:58		50	53860	

MAG. NOTES



**GEO-X SURVEYS Ltd.**  
627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 11/27/69 Pg. 26  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammass	Cor.	Final Z	Remarks
	Δ 70	53900		12:00		60	53840	
	+50	53890		12:03		69	53821	
	+100	53960		12:05		74	53886	
	+150	53950		12:06		84	53866	
	Δ 71	53860		12:12		78	53782	
	+50	53830		12:19		50	53780	
	+100	53910		12:21		40	53870	
	+150	53910		12:22		53	53857	
	Δ 72	53960		12:23		86	53904	
	+50	53870		12:30		90	53740	
	+100	53900		12:31		85	53815	

MAG. NOTES



**GEO-X SURVEYS Ltd.**  
627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 11/27/69 Pg. 27  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammass	Cor.	Final Z	Remarks
	Δ 72	53900		12:40		53	53847	
	Δ 73	53870		12:44		62	53808	
	+50	53830		12:48		74	53756	
	+100	53890		12:50		80	53810	
	+150	53860		12:51		73	53787	
	Δ 74	53870		12:57		25	53845	
	+50	53810		12:58		17	53793	
	+100	53790		1:00		0	53790	
	+150	53760		1:02		3	53757	
	Δ 75	53790		1:04		70	53720	
				1:10		16	53700	



MAG. NOTES



**GEO-X SURVEYS** Ltd.  
627 HORNBY ST., VANCOUVER I. B.C.

Prop. \_\_\_\_\_ Date 11/2/69 Pg. 28  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gamm	Cor.	Final Z	Remarks
	Δ75+100	53830		1.12		55	53745	
	+100	53760		1.14		40	53720	
	Δ76	53870		1.16		31	53839	
	+50	53840		1.20		6	53834	
	+100	53800		1.22		0	53800	
	+150	53840		1.24		20	53820	
	Δ77	53830		1.27		57	53773	
	+50	53950		1.37		17	53933	
	+100	53720		1.41		18	53702	
	+150	53880		1.43		40	53840	
	Δ78	53940		1.46		52	53898	

MAG. NOTES



**GEO-X SURVEYS** Ltd.  
627 HORNBY ST., VANCOUVER I. B.C.

Prop. \_\_\_\_\_ Date 11/2/69 Pg. 29  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale Cor	Time	Gamm	Cor.	Final Z	Remarks
W ↓	Δ78+150	53800		1.50		-81	53719	
	+100	53750		1.52		-84	53666	
	+150	53710		1.57		-95	53615	
N ↓	Δ79	53870	53770	2.00	100	(Δ59	6	Δ79 ≈ 450
	+50	53800	53621	2.45		59		
	+100	53840	53778	2.46		52		} 11/2/69
	+150	53790	53720	2.51		70		
	Δ79"	53850	53785	2.53		65		
↓	Δ78+150	53890		12.06		100	53790	17 / 2 / 69
	+100	53940		12.07		97	53893	
	+50	53900		12.09		90	53890	
	Δ78"	54090		12.10		88	54002	

MAG. NOTES



**GEO-X SURVEYS** Ltd.  
627 HORNBY ST., VANCOUVER I. B.C.

Prop. \_\_\_\_\_ Date 1-11-69 Pg. 30  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gamm	Cor.	Final Z	Remarks
↓	Δ77+100	53970		12.15		77	53893	
	+100	53970		12.17		76	53894	
	+50	54000		12.18		75	53925	
↓	Δ77	54040		12.20		73	53968	
↓	Δ76+150	53900		12.22		71	53829	
	+100	53960		12.25		67	53833	
	+50	53920		12.26		66	53854	
	Δ76	53920		12.28		64	53856	
↓	Δ76+100	53920		12.31		61	53859	
	+100	53880		12.33		60	53797	
	+50	53840		12.34		58	53820	
	Δ75	53720		12.35		57	53757	

MAG. NOTES



GEO-X SURVEYS Ltd.

827 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 17/2/66 Pg. 3  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale Cor	Time	Gammass C <sub>g</sub>	Cor.	Final Z	Remarks
	Δ74+150	<del>53910</del> 53920		12.44		84	53826	
	+100	53900		12.45		87	53813	896
	+50	53990		12.46		89	53901	
	Δ74	54040	53979	12.52		(100' N on 151 54) Offset 10' N on 151 54 = 7.2" N		
	Δ73+150	53970	53973	1.00		97	53900	Δ74+50 = 53900 at 12.5
	+100	53980	53882	1.01		98	53900	Δ74" = 54300 at 12.5
	+50	54000		1.02		100	53900	
	Δ73	54000		1.03		101	53899	4799
	Δ72+150	53860		1.07		105	53755	
	+100	54000		1.07 1/2		105	53895	
	+50	53950		1.09 1/2		107	53843	

MAG. NOTES



GEO-X SURVEYS Ltd.

827 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 17/2/66 Pg. 3  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale Cor	Time	Gammass C <sub>g</sub>	Cor.	Final Z	Remarks
	Δ72	54030		1.12		110	53920	
	Δ71+150	53950		1.15		113	53837	
	+100	54000		1.16		114	53886	
	+50	53950		1.18		116	53834	
	Δ71	53960		1.21		119	53841	
	Δ70+150	53990		1.23		120	53870	
	+100	54020	<del>53978</del>	1.25	53898	122 = 15' from Δ70		
	+50	53920	53896	1.27		124		
	Δ70	53980	53855	1.28		125		Δ 69 + 100
	Δ79+150	54000		2.15		26	53954	
	+100	54000		2.19		25	53975	
	+150	53780		2.23		23	53757	

MAG. NOTES



GEO-X SURVEYS Ltd.

827 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 17/2/66 Pg. 33  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammass	Cor.	Final Z	Remarks
	Δ99	53980		2.27		70	53940	
	Δ98+150	54000		2.33		60	53940	
	+100	53930		2.25		62	53868	
	+50	53930		2.36		63	53867	
	Δ98	53990		2.37		65	53925	
	Δ97+150	53990		2.40		68	53922	
	+100	53970		2.43		71	53899	
	+50	54000		2.47		75	53923	
	Δ97	53950		2.48		76	53874	
	+100	53970		2.51 1/2		80	53890	
	+150	53780		2.53		82	53757	



MAG. NOTES



**GEO-X SURVEYS Ltd.**  
627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 12/1/66 Pg. 37  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammass	Cor.	Final Z	Remarks
	Δ87+150	53900		4.10		24	53856	
	+100	53920		4.12		28	53902	
	+50	53930		4.13		19	53971	
	Δ87	53940		4.15		14	53926	
	Δ86+150	53920		4.25		24	53896	
	+100	53930		4.26		30	53900	
	+50	53920		4.27		34	53886	
	Δ86	53950		4.29		28	53912	
	Δ85+150	53920		4.31		58	53882	
	+100	53900		4.32		70	53830	
	+50	53870		4.34		71	53799	

MAG. NOTES



**GEO-X SURVEYS Ltd.**  
627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 12/2/66 Pg. 38  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammass	Cor.	Final Z	Remarks
	Δ85	53840		4.36		72	53768	
	Δ84+150	53960		4.38		75	53885	
	+100	53870		4.40		77	53783	
	+50	53850		4.41		77	53773	
	Δ84	53860		4.43		81	53799	
	Δ83+150	53810		4.48		85	53725	
	+100	53830		4.50		88	53742	
	+50	53840		4.53		88	53752	
	Δ83	53860		4.55		70	53790	
	Δ82+150	53820		4.58		58	53782	
	+100	53890		5.00		40	53850	
	+50	53920		5.01		31	53889	

MAG. NOTES



**GEO-X SURVEYS Ltd.**  
627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 12/2/66 Pg. 39  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammass	Cor.	Final Z	Remarks
	Δ82	53900		5.03		25	532875	
	Δ81+150	<del>53870</del> 53920		<del>5.05</del> 5.07		18	53852	
	+100	53900		5.07		13	53887	
	+50	53900		5.09		10	53890	
	Δ81	53920		5.10	8	(250' N. from Δ61)	53912	
	Δ64+50	53840		5.15		10	53830	
	+100	53870		5.17		14	53856	
	+150	53970		5.18		26	53944	
	+200	53850		5.20		31	53819	
	<del>Δ61+150</del>	<del>53870</del>		<del>5.22</del>				
	Δ61+300	53970		5.26		56	53844	
	+350	53960		5.26		56	53907	

MAG. NOTES



**GEO-X SURVEYS**  
627 HORNBY ST., VANCOUVER I. B.C.

Ltd.

Prop. \_\_\_\_\_ Date 17/1/66 Pg. 40  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale Cor	Time	Gammas	Cor.	Final Z	Remarks
	400 from 101	53650	53588	5.30	68			Time = 5.30
	Δ 101 +50	53720		8.54 <sup>1/2</sup>		58	53662	18/12/69
W	+100	53780		9.00 <sup>1/2</sup>		56	53724	
	+150	53720		9.01		54	53666	
	Δ 102	53730		9.02		54	53676	
	+50	53800		9.06		60	53740	
	+100	53700		9.07 <sup>1/2</sup>		64	53636	
	+150	53700		9.10		69	53631	
	Δ 103	53710		9.12		72	53638	
	+50	53780		9.17		82	53698	
V	+100	53770		9.18		83	53687	

MAG. NOTES



**GEO-X SURVEYS**  
627 HORNBY ST., VANCOUVER I. B.C.

Ltd.

Prop. \_\_\_\_\_ Date 18/2/69 Pg. 41  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	NO 150	53790		9.19		80	53710	
	Δ 104	53790		9.21		75	53715	
	+50	53800		9.25		78	53722	
W	+100	53740		9.26 <sup>1/2</sup>		80	53660	
	+150	53750		9.28 <sup>1/2</sup>		82	53668	
	Δ 105	53700		9.30		83	53617	
	+50	53850		9.32 <sup>1/2</sup>		84	53766	
V	+100	53850		9.34		84	53766	
	+150	53760		9.35		83	53677	
	Δ 106	53810		9.27		77	53733	
	+50	53820		9.40		72	53758	

MAG. NOTES



**GEO-X SURVEYS**  
627 HORNBY ST., VANCOUVER I. B.C.

Ltd.

Prop. \_\_\_\_\_ Date 18/2/69 Pg. 42  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	Δ 106 +10	53770		9.42		67	53703	
	+150	53890		9.43		65	53825	
	Δ 107	53850		9.44		60	53790	
W	+50	53830		9.47 <sup>1/2</sup>		63	53767	
	+100	53750		9.49		69	53681	
	+150	53790		9.50 <sup>1/2</sup>		70	53720	
V	Δ 108	53770		9.53		75	53695	
	+50	53780		9.59		74	53706	
	+100	53780		10.08		71	53709	
	+150	53850		10.02		67	53785	
				10.62		65	53741	

MAG. NOTES



**GEO-X SURVEYS** Ltd.

627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_

Job #. \_\_\_\_\_

Date 12/2/69 Pg. 43

Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	Δ109.45	53830		10.06		60	53770	
	+100	53890		10.07		62	53728	
	+150	53830		10.08		66	53764	
W	Δ110	53800		10.11		69	53731	
	+350	53820		10.14		78	53742	
	+100	53900		10.15		80	53820	
V	+150	53890		10.16		81	53809	
	Δ111	53880		10.18		85	53795	
	+50	53900		10.21		87	53813	
	+100	53800		10.23		83	53717	
	+150	53800		10.25		79	53722	

MAG. NOTES



**GEO-X SURVEYS** Ltd.

627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_

Job #. \_\_\_\_\_

Date 12/2/69 Pg. 44

Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	Δ112	53800		10.27		75	53725	
	+50	53850		10.29		62	53788	
	+100	53840		10.35		61	53779	
W	+150	53800		10.37		57	53743	
	Δ113	53860		10.38		58	53802	
	+50	53860		10.41		64	53796	
	+100	53830		10.42		63	53767	
V	+150	53820		10.43		67	53759	
	Δ114	53840		10.45		60	53780	
	+50	53790		10.55		50	53740	
	+100	53780		10.57		48	53732	
	+150	53820		10.58		48	53772	

MAG. NOTES



**GEO-X SURVEYS** Ltd.

627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_

Job #. \_\_\_\_\_

Date 12/2/69 Pg. 45

Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammas	Cor.	Final Z	Remarks
	Δ115	53820		11.00		46	53774	
	+50	53900		11.02		38	53862	
	+100	53900		11.10		36	53864	
W	+150	53870		11.22		40	53830	
	Δ116	53860		11.24		37	53822	
	+50	53920		11.30		48	53872	
	+100	53800		11.32		53	53747	
V	+150	53900		11.34		57	53843	
	Δ117	53900		11.36		57	53843	
	+50	53880		11.44		49	53838	
	+100	53900		11.58		53	53847	

MAG. NOTES



GEO-X SURVEYS Ltd.  
627 HORNBY ST., VANCOUVER I. B.C.

Prop. \_\_\_\_\_ Date 18/2/69 Pg. 46  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale Cor.	Time	Gammass	Cor.	Final Z	Remarks
57	A 115	53900	53843	12.03				
56	+50	53860	53804	12.07				[5' N of this and 2' N in Δ78]
57	+100	53920	53869	12.11				
43	+150	53900	53857	12.14				Remain Δ79 = 260° @ 50' W of 119
44	A 117	53900	53856	12.19				Δ119 ties into Δ99 in 135'
46	+79+50	53850	53804	12.22				
50	+100	53880	53830	12.25				
51	+150	53900	53849	12.27				
51	A 97 + 200	53850	53799	12.30				
31	N ↓ 12+50	53970	53939	1.4				Base

MAG. NOTES



GEO-X SURVEYS Ltd.  
627 HORNBY ST., VANCOUVER I. B.C.

Prop. \_\_\_\_\_ Date 18/2/69 Pg. 47  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gammass	Cor.	Final Z	Remarks
27	Δ12+100	54000	53973	1.15				at 53970
27	+150	53950	53902	1.22				occurs at Δ12+150 [53950 @ 1.20] for Δ12+200
27	Δ32+50	53900	53895	1.22				[Δ12+250']
27	+100	53890	53883	1.23				Δ12+300'
27	+150	53940	53925	1.24				Δ12+350'
27	+200	53950	53922	1.26				Δ12+400'
28	Δ52+50	53950	53945	1.32				Δ52 = Δ12+4.27'
30	+100	53960	53930	1.34				Δ12+500'
30	+150	53900	53870	1.35				Δ12+550'
23	+200	53920	53957	1.37				Δ12+600'
21	+250	53950	53929	1.40				Δ12+650'
			Δ72					at Δ12+72' = 52'

MAG. NOTES



GEO-X SURVEYS Ltd.  
627 HORNBY ST., VANCOUVER I. B.C.

Prop. \_\_\_\_\_ Date 18/2/69 Pg. 48  
Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale Cor.	Time	Gammass	Cor.	Final Z	Remarks
28		53930	53902	1.44				Δ12+700'
30		53960	53930	1.45				+750'
32		53910	53878	1.47				+800'
38		53840	53802	1.49				+850'
								[Δ92 at 861']
41		53910	53869	1.51				Δ12+900'
47		53920	53873	1.53				+950'
53		53870	53817	1.54				+1000'
66		53890	53824	1.56				+1050'
69		53850	53781	1.57				Δ12+1100'
								(at 1119) = 1112'

MAG. NOTES



**GEO-X SURVEYS** Ltd.

627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 18/2/69 Pg. 49  
 Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale C	Time	Gamm	Cor.	Final Z	Remarks
80 77	N12+1150	53840	53760	2.00				
	+1200	53910	53833	2.02				
								Setback @ Δ12 + 1270
	N6+50	53970		2.38	58		53912	
	+100	53980		2.39	60		53920	
	+150	54000		2.40	60		53940	
	+200	53970	Δ26 @ 261.31	2.47	36		53934	
	+250	53960		2.48½	30		53930	

MAG. NOTES



**GEO-X SURVEYS** Ltd.

627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 18/2/69 Pg. 50  
 Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gamm	Cor.	Final Z	Remarks
	N1+300	54000		2.50		52	53978	
	+350	53960		2.52		24	53936	
	+400	54000		2.53		25	53975	
	+450	53950		2.57		35	53915	
	+550	53930	Δ46 @ 500	3.00			53890	
	+650	53950	Δ66 @ 600	3.06		40	53935	
	+700	53950		3.07		7	53943	
	+750	53890		3.08½		7	53889	
	+800	53830		3.10		6+	53836	

MAG. NOTES



**GEO-X SURVEYS** Ltd.

627 HORNBY ST., VANCOUVER 1, B.C.

Prop. \_\_\_\_\_ Date 18/2/69 Pg. 51  
 Job #. \_\_\_\_\_ Operator \_\_\_\_\_ Of. \_\_\_\_\_

Line X	Sta. Y	Read	Scale	Time	Gamm	Cor.	Final Z	Remarks
	+850	53910		3.15		+	53921	
	+900	54000		3.16		71	54011	
	+950	54040	Δ86 @ Δ6+	917		0	54040	
	+1000	54010		3.21		3	54007	
	+1050	53920		3.23½		6	53914	
	+1100	53900	106 @ Δ7 Δ6	11077				
	+1150	54000		3.26		26	53877	
	+1200	54000		3.27½		27	53973	
	+1250	54000		3.29		37	53956	



TIME	BASE	(READING)
9:40		54000
9:50		54070
10:00		54020
10:10		54000
10:20	1	54020
10:30		54036
10:40	✓	54060
10:50		54060
11:00		54000
11:10		54040
11:20		54060
11:30		54040
11:40		54000
11:50		54000
12:00		54040

TIME	BASE	(READING)
12:10		54060
12:20		54060
12:30		54020
12:40		54040
12:50	2	54050
1:00		54010
1:10		54060
1:20		54010
1:30		54060
1:40		54000
1:50		54000
2:00	○	54050
2:10		54030
2:20	○	54000
2:30		53980

TIME	BASE	(READING)
2:40		54000
2:50		54060
3:00		54030
3:10		54060
3:20		54060
3:30		54040
3:40	3	54020
3:50		54030
4:00		54020
4:10		54000
4:20		54040
4:30		54050
4:40		54020
4:50		54000
5:00		54000

(TIME)	TIME BASE	(READING)
5:10		54050
5:20		54020
5:30		54040
5:40		54060
5:50		54060

4

TIME	TIME BASE	(READING)
9:14		54080
9:24		54040
9:34		54040
9:45		54100
9:55		54060
10:05	5	54080
10:15		54100
10:25		54100
10:35		54140
10:45		54140
10:55		54040
11:05		54060
11:15		54080
11:25		54120
11:35		54080

(TIME)	TIME BASE	(READING)
2:15		54050
2:25		54100
2:35		54100
2:45		54100
2:55		54150
3:05	6	54100
3:15		54120
3:25		54100
3:35		54110
3:45		54100
3:55		54110
4:05		54100
4:15		54080
4:25		54050
4:35		54120

FEB 15/67

TIME BASE

(TIME)	(READING)
11:40	54030
11:50	54050
12:00	54050
12:10	54110
12:20	54080
12:30	54020
12:40	54100
12:50	54080
1:00	54100
1:05	54080
1:10	54090
1:20	54010
1:30	54130
1:40	54120
1:50	54090

7

TIME BASE

(TIME)	(READING)
11:45	54080
11:55	54050
12:05	54080
12:15	54100
12:25	54110
12:35	54150
12:45	54050
12:55	54110
1:05	54130
1:15	54050
1:25	54070
1:35	54080
1:45	54050
1:55	54060
2:05	54050

TIME BASE

(TIME)	(READING)
4:45	54180
4:55	53960
5:05	54130
5:15	54100
5:25	54100
5:35	54150
5:45	54060
5:55	54120
6:05	54070
6:15	54120

53960

54150  
53960  
220

②

(TIME)	TIME BASE (READING)
2:00	54130
2:10	54160
2:20	54060
2:30	54100
2:40	54160
2:50	54110
3:00	54060
3:10	54090
3:20	54040
3:30	54020
3:40	54160
3:50	54040
4:00	54060
4:10	54090
4:20	54070

③

(TIME)	TIME BASE (READING)
4:30	54050
4:40	54080
4:50	54060
5:00	54090
5:10	54120
5:20	54050
5:30	54080
5:40	54050

8

54130  
54020  
110

~~54050~~

④

TIME	TIME BASE (READING)
8:40	54050
8:50	54000
9:00	54070
9:10	54000
9:20	54040
9:30	54060
9:40	54020
9:50	54010
10:00	54080
10:10	54050
10:20	54050
10:30	54020
10:40	54000
10:50	54090
11:00	54020

9

(TIME)	TIME BASE	(READING) ③
11:10		54040
11:30		54000
11:30		54070
11:40		54000
11:50		54020
12:00		54060
12:10		54090
12:20	10	54040
12:30		54090
12:40		54050
12:50		54080
1:00		54000
1:10		54070
1:20		54000
1:30		54080

(TIME)	TIME BASE	(READING) ③
1:46		54000
1:50		54080
2:00		54100
2:10		54010
2:20		54060
2:30		54000
2:40		54050
2:50	11	54070
3:00		54040
3:10		54080
3:20		54020
3:30		

54000  
54000  
100

(TIME)	TIME BASE	(READING) ③
11:55	12.02	54110
12:05	12.12	54080
12:15	12.22	54070
12:25	12.32	54060
12:35	12.42	54050
12:45	12.52	54100
12:55	1.02	54100
1:05	1.12	54110
1:15	1.22	54120
1:25	1.32	54120
1:35	1.42	54100
1:45	1.52	54100
1:55	2.02	54080
2:05	2.12	54060
2:15	2.22	54020

(TIME)	TIME BASE (READING)
4:55	5.02 54020
5:05	5.12 54000
5:15	5.22 54050
5:25	5.32 54070

110  
54000

13

(TIME)	TIME BASE (READING)
8:55	54060
9:05	54060
9:15	54080
9:25	54080
9:35	54080
9:45	54060
9:55	54080
10:05	54060
10:15	54080
10:25	54030
10:35	54060
10:45	54060
10:55	54050
11:05	54040
11:15	54040

14

(TIME)	TIME BASE (READING)
2:25	2.32 54060
2:35	2.42 54060
2:45	2.52 54080
2:55	3.02 54100
3:05	3.12 54080
3:15	3.22 54050
3:25	3.32 54070
3:35	3.42 54080
3:45	3.52 54050
3:55	4.02 54100
4:05	4.12 54020
4:15	4.22 54000
4:25	4.32 54070
4:35	4.42 54080
4:45	4.52 54090

(TIME)	(READING)
2:30	54040
2:40	54040
2:50	54020
3:00	54040
3:10	54050
3:20	54060
3:30	54040
3:40	54060

15

(TIME)	(READING)
11:25	54040
11:35	54060
11:45	54040
11:55	54050
12:05	54060
12:15	54040
12:25	54050
1:10	54060
1:20	54050
1:30	54040
1:40	54020
1:50	54040
2:00	54020
2:10	54060
2:20	54040

REMARKS BY J.A. MITCHELL

The magnetic survey made by Ian F. Morton and described in these pages by him was done over logged over terrain in which there are few outcrops of rock which can be readily examined because of the downed timber. The magnetics will aid in the mapping of the rock types when the snow has left the ground as it will not then be, necessary to traverse the entire area under difficult conditions.

The writer, J.A. Mitchell has been retained by Kelso Explorations Ltd. to correlate all the work done on the property to date. He recommended that a magnetometer survey would be the most logical approach in this area to acquire useful information for the purpose of determining the probable geological picture and relating it to the geology already mapped and on which there is also magnetic data.

We are presently seeking mineralized pipes thought to occur in relatively narrow tongue or projections of ultra-basic rocks into the Coast intrusives along the contact.

The relative susceptibilities of the rock types involved will be tested later over known geology and the information thereby obtained will be used to confirm the

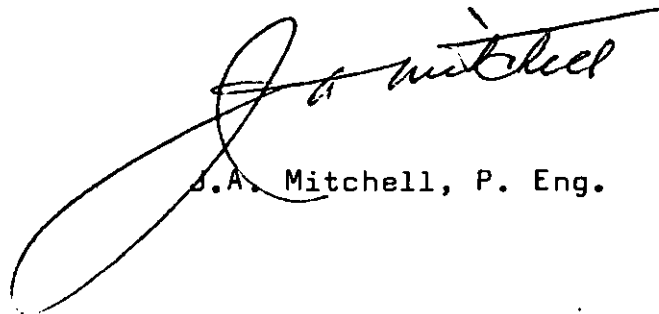


interpretation of the present data. At the moment it appears that a band of granodiorite, cuts a body of metamorphic rocks in which pipelike magnetic lows occur some of which show relatively steep magnetic gradients. There will be further investigated when ground conditions permit.

It should be noted that consistent patterns have been developed even when single anomalous readings are taken into account. Ignoring these there is indicated a rather definite line of demarcation along the "B" panel between low and high readings which would suggest a contact similar to that noted on the northeast corner of the plot.

It should be noted also that great care, was taken to obtain an accurate magnetic-time base because of magnetic storm conditions prevailing at the present time.

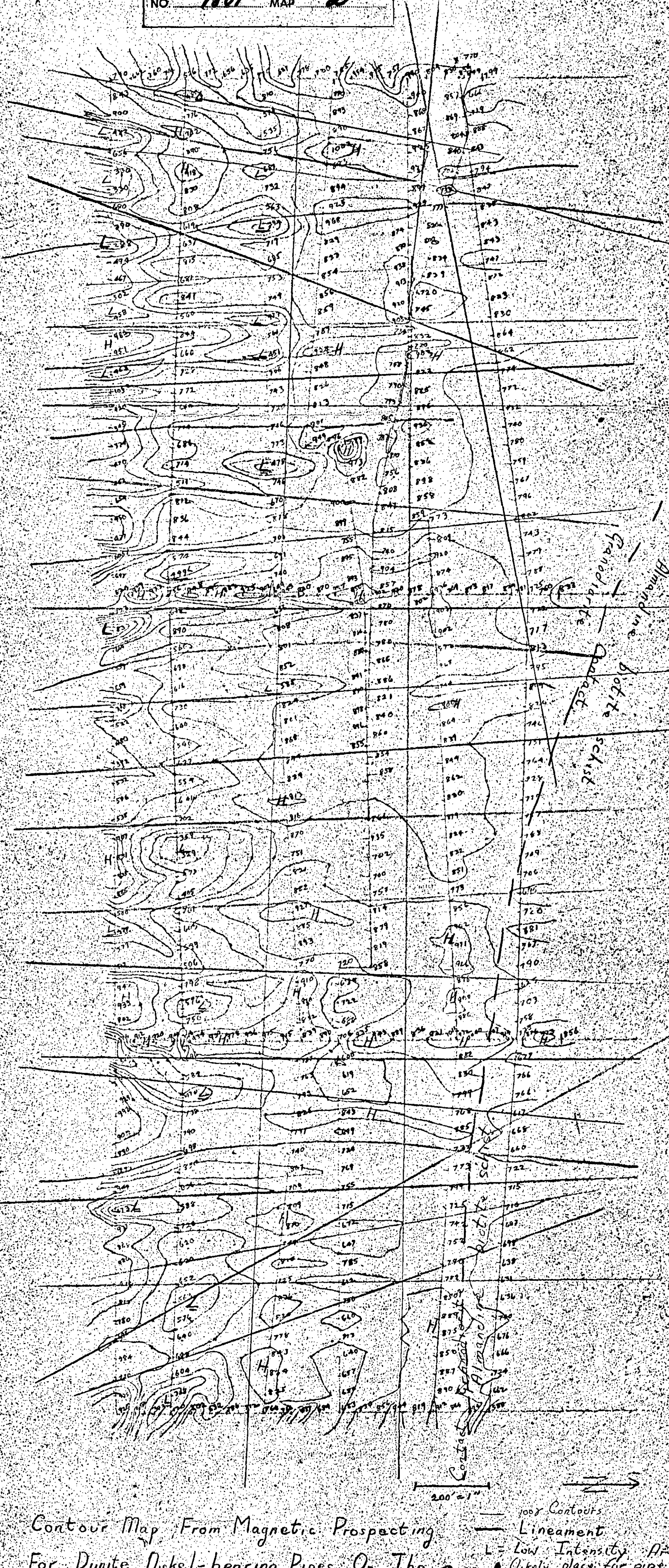
Respectfully submitted.



J.A. Mitchell, P. Eng.

APPENDIX

Department of  
Mines and Technical Surveys  
**ASSESSMENT REPORT**  
NO. 1801 MAP 2

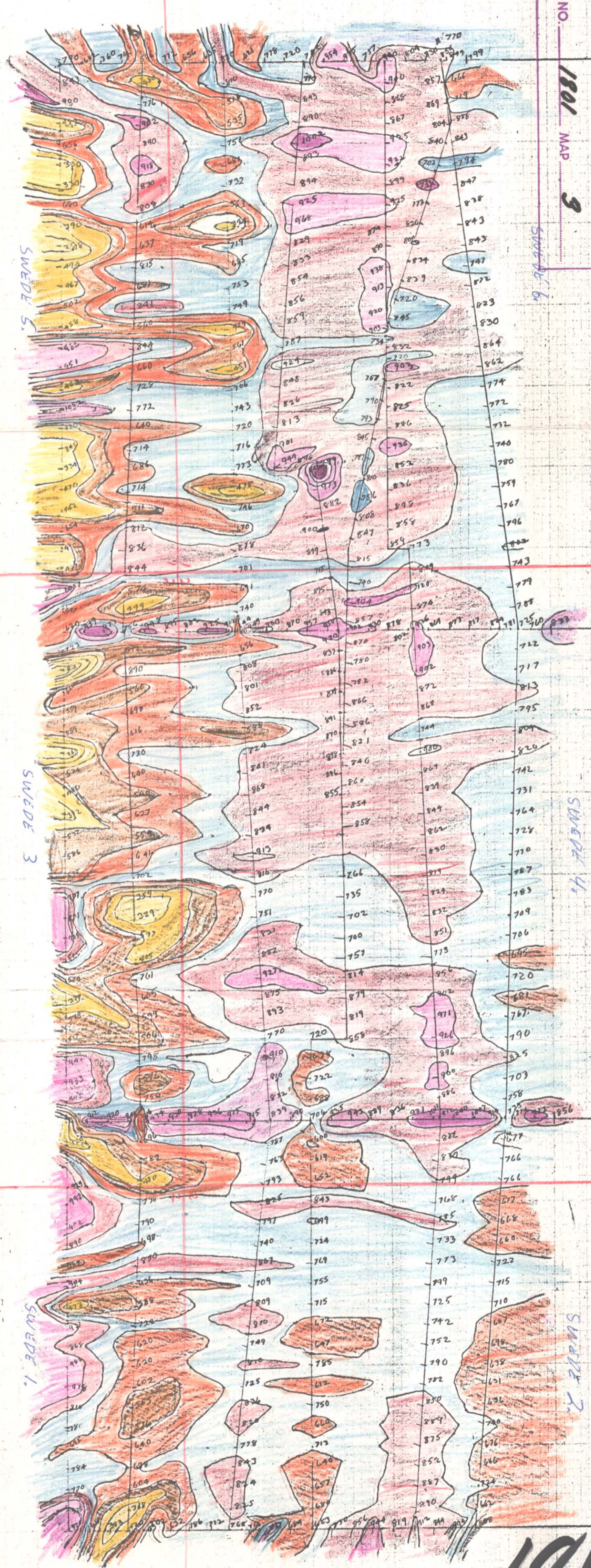


Contour Map From Magnetic Prospecting  
For Dunite Nickel-bearing Pipes On The  
Kelso Property, Near Hope B.C.  
4/3/69 by Jan P. Martin

100m Contours  
Lineament  
L = Low Intensity Area  
(likely place for pipe if  
magnetic gradient steep)  
H = High Intensity Area

1801

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO 1801 MAP 9



Contour Map From Magnetic Prospecting  
For Dunite Nickel Bearing Pipes

- |                        |         |              |            |        |
|------------------------|---------|--------------|------------|--------|
| Below 400 light yellow | 600-700 | light orange | 700-1200   | purple |
| 400-500 dark yellow    | 700-800 | blue         | Above 1200 | red    |
| 500-600 light orange   | 800-900 | red          |            |        |

1801

4/3/69 Jan J. M. ...

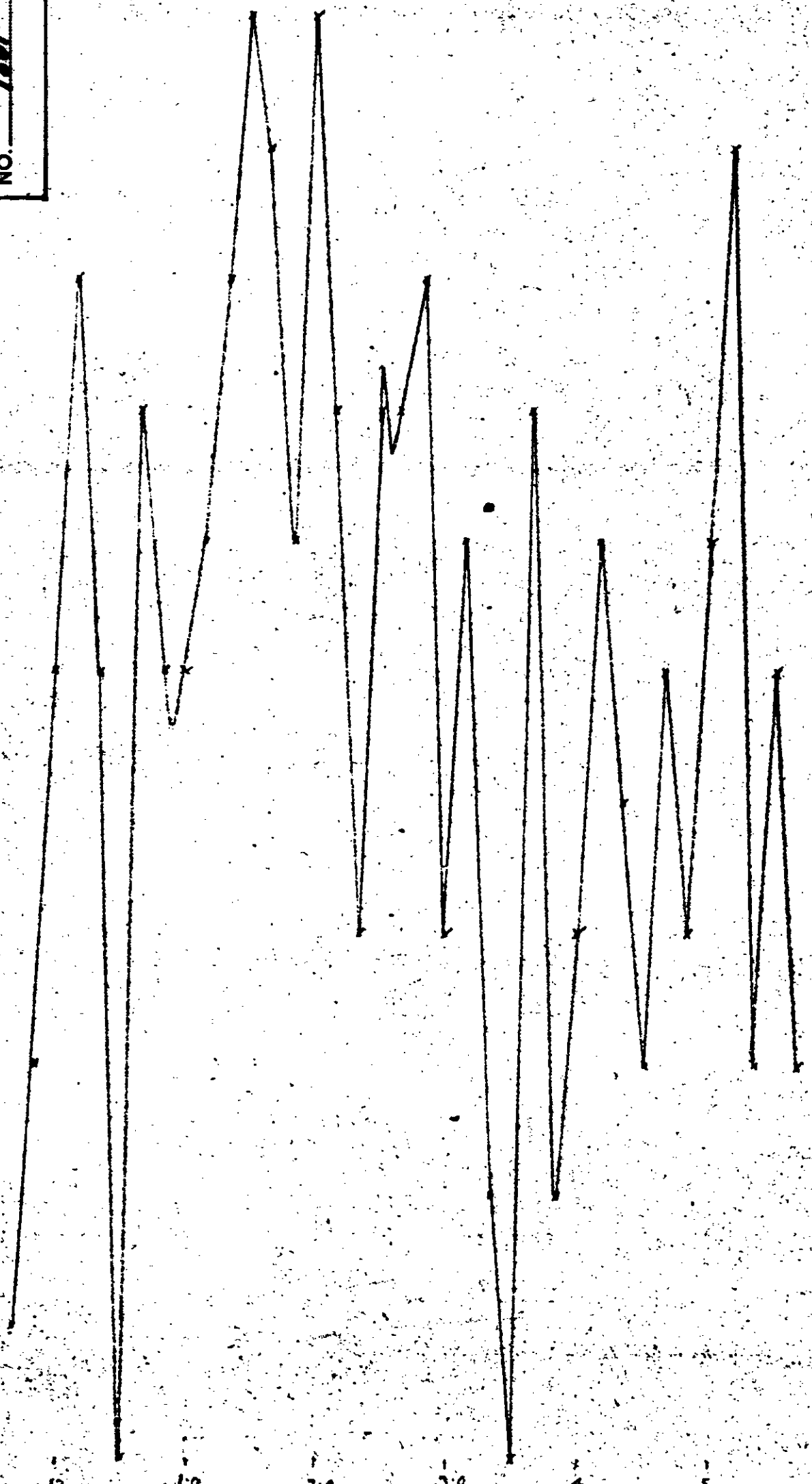
15/2/69

1801

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT

NO. 1801 MAP 4d

54140 -  
54130 -  
54120 -  
54110 -  
54100 -  
54090 -  
54080 -  
54070 -  
54060 -  
54050 -  
54040 -  
54030 -  
54020 -



Base at 54000  
Time

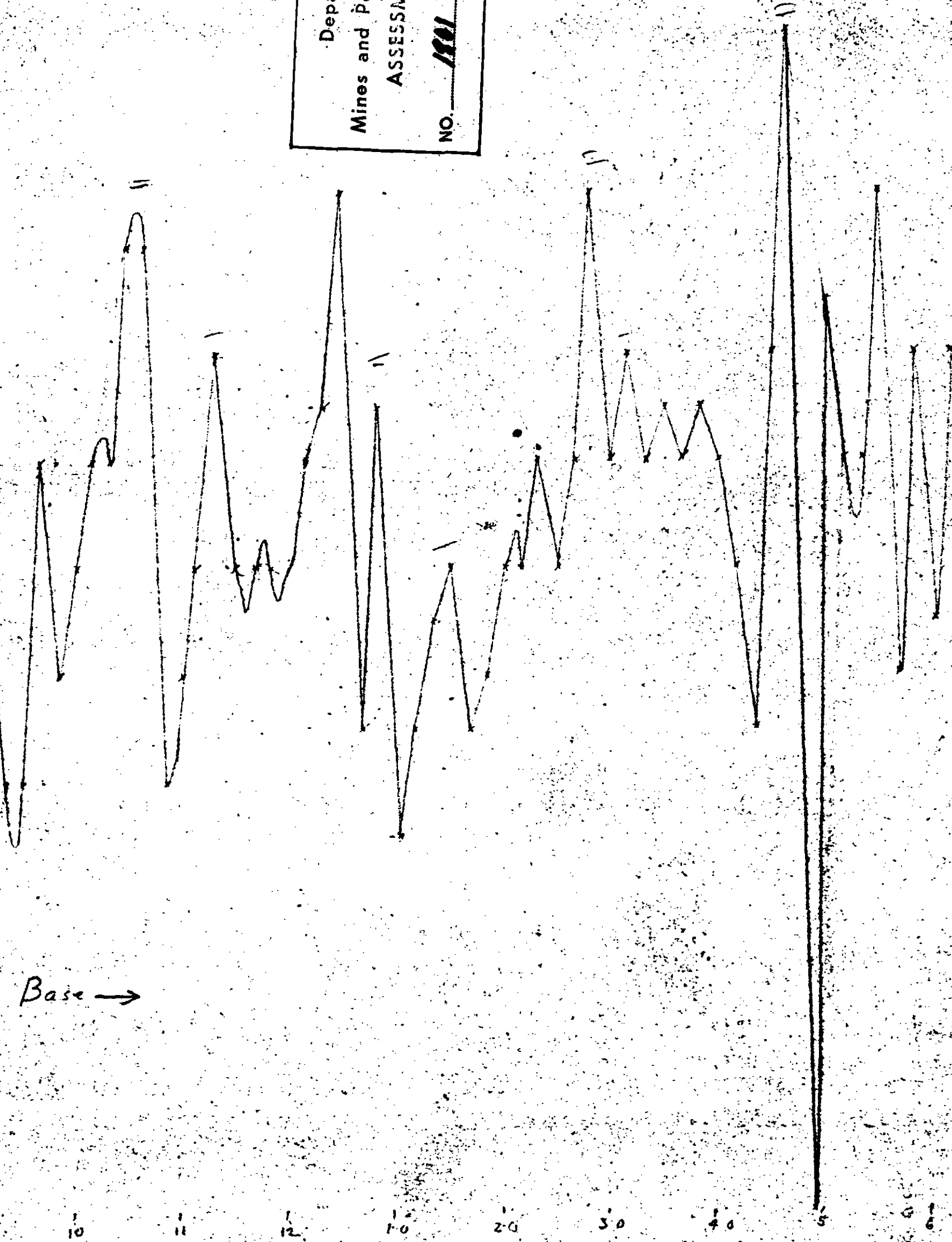
1801

14/2/69

Department of  
 Mines and Petroleum Resources  
 ASSESSMENT REPORT

NO. 1801 MAP fe

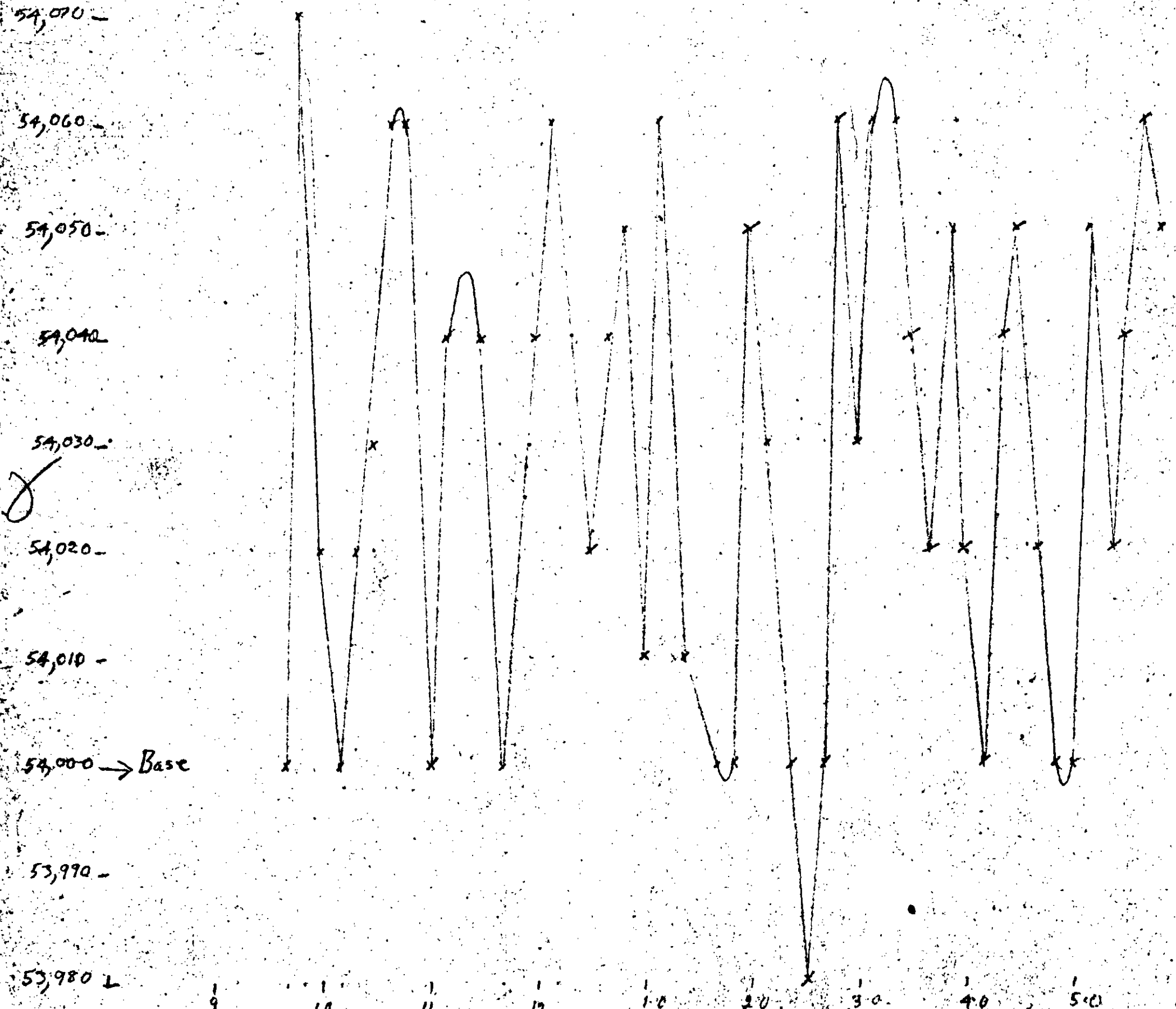
54180 -  
 54160 -  
 54140 -  
 54120 -  
 54100 -  
 54080 -  
 54060 -  
 54040 -  
 54020 -  
 54000 → Base →  
 53980 -  
 53960 -



Time

6

13/2/69



Time Base Curves  
*JPM*

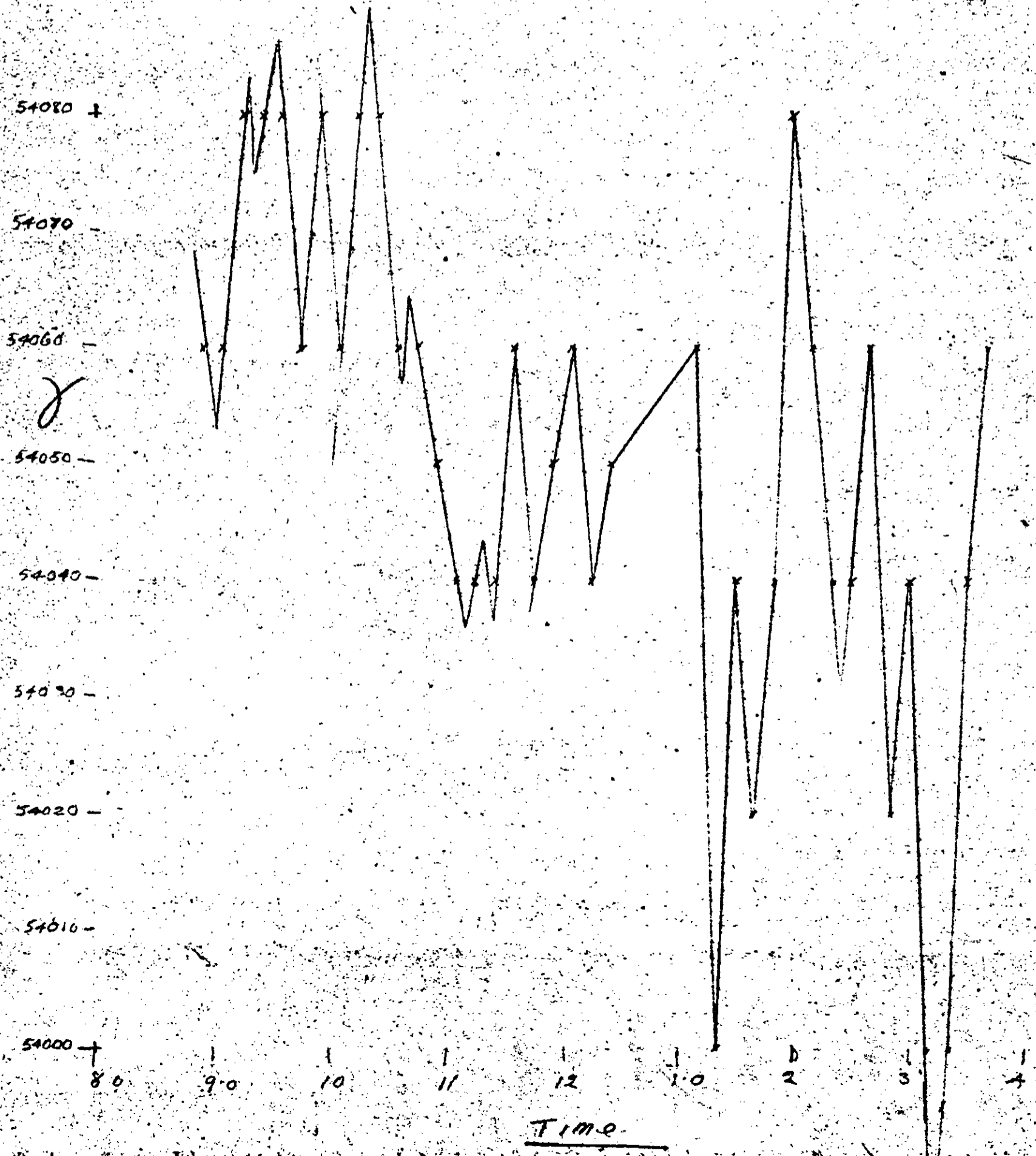
Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 1801 MAP 44

1801

18/2/69

1801

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Mines and Petroleum Resources  
ASSESSMENT REPORT  
NO. 1801 MAP 10

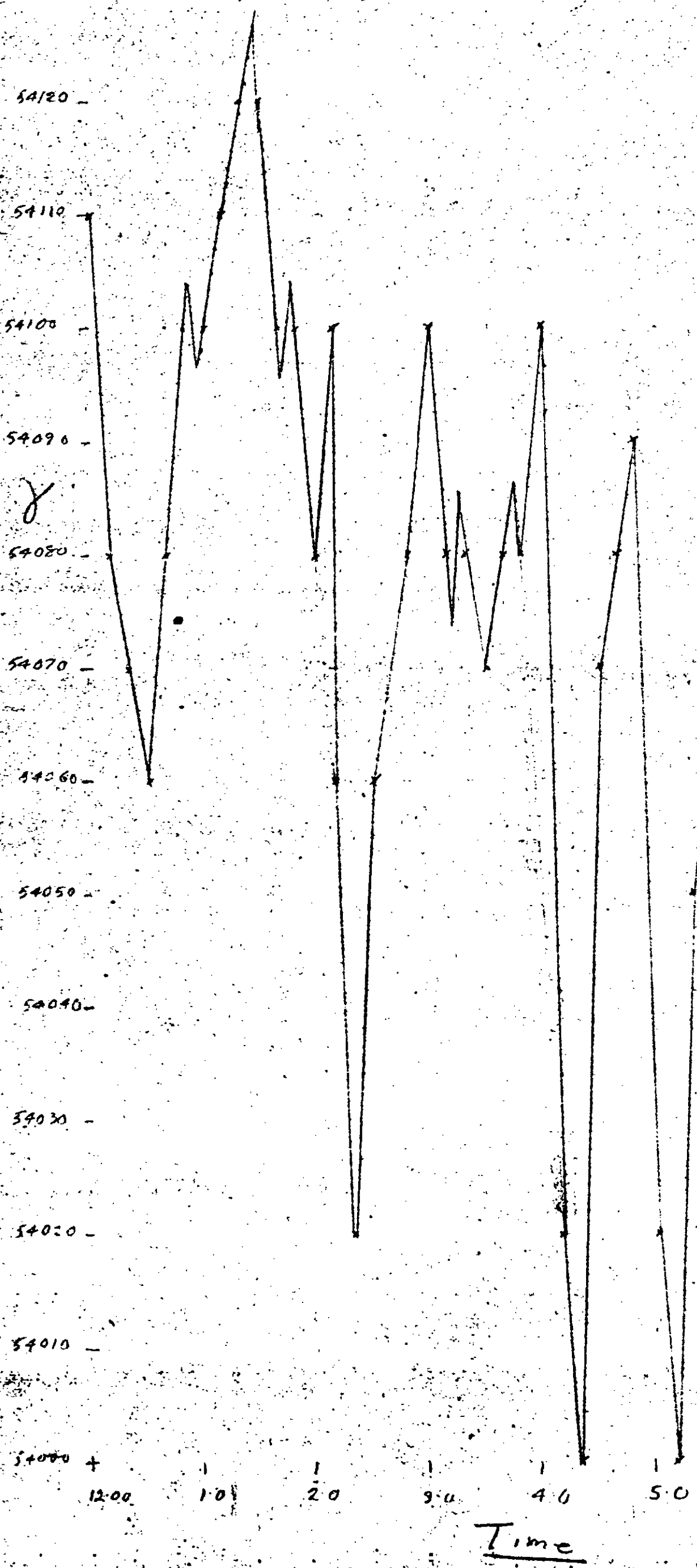




17/2/69

1801

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 NO. 1801 MAP 44



← Base

Time

16/2/69

1801

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 No. 1801 HAP# 40

